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NOTICE OF ALLOWANCE AND FEE(S) DUE

25889

7590

11/30/2009

COLLARD & ROE, P.C. 1077 NORTHERN BOULEVARD ROSLYN, NY 11576 EXAMINER
BERTHEAUD, PETER JOHN

PAPER NUMBER

ART UNIT

DATE MAILED: 11/30/2009

- 4					
	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/587,689	07/27/2006	Alfred Freiberger	FREIBERGER - 1 PCT	8394

TITLE OF INVENTION: REFRIGERANT COMPRESSOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifications.	ted below or directed oth	ng the Patent, advance on the nerwise in Block 1, by (a	a) specifying a new co	of m rresp	aintenance fees will to condence address; and	be mailed to the current look (b) indicating a separate	correspondence address as rate "FEE ADDRESS" for	
	ock 1 for any change of address)	F	Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, make its own certificate of mailing or transmission.					
25889 COLLARD & 1077 NORTHE ROSLYN, NY	V2009			Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
			[(Depositor's name)	
							(Signature)	
			[(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	AT	TORNEY DOCKET NO.	CONFIRMATION NO.	
10/587,689 TITLE OF INVENTION	07/27/2006 N: REFRIGERANT COM	MPRESSOR	Alfred Freiberger		FI	REIBERGER - 1 PCT	8394	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	Е	PREV. PAID ISSUE FE	E TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1510	\$300		\$0	\$1810	03/01/2010	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	\neg				
BERTHEAUD	, PETER JOHN	3746	417-312000	_				
"Fee Address" inc PTO/SB/47; Rev 03- Number is required 3. ASSIGNEE NAME A PLEASE NOTE: Un	AND RESIDENCE DATA tless an assignee is ident th in 37 CFR 3.11. Com	" Indication form led. Use of a Customer A TO BE PRINTED ON	or agents OR, altern (2) the name of a si registered attorney of 2 registered patent a listed, no name will THE PATENT (print or data will appear on the	ngle or ag attorn be p type type an a	firm (having as a megent) and the names of news or agents. If no norinted. e) tent. If an assignee is ssignment.	mber a 2	ocument has been filed for	
Please check the approp	riate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🗖 Corpo	ration or other private gro	up entity Government	
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
a. Applicant clain	atus (from status indicated as SMALL ENTITY statu and Publication Fee (if req	is. See 37 CFR 1.27.				NTITY status. See 37 CF		
interest as shown by the	records of the United Sta	ites Patent and Trademark	Office.	_ 41	Tr	or agent, or the	e assignee or other party in	
Authorized Signature	? <u></u>				Date			
Typed or printed name								
This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22.	Virginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR	on is required to obtain 1.14. This collection is y depending upon the in the Chief Information Of COMPLETED FORMS	or re estindivi- ficer TO	stain a benefit by the p mated to take 12 minu dual case. Any comm t, U.S. Patent and Trac THIS ADDRESS. SE	ublic which is to file (and tes to complete, including ents on the amount of tin lemark Office, U.S. Depa END TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. For Patents, P.O. Box 1450,	

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10/587,689	07/27/2006	Alfred Freiberger	FREIBERGER - 1 PCT	8394			
25889 75	25889 7590 11/30/2009			EXAMINER			
COLLARD & R	OE, P.C.	BERTHEAUD, PETER JOHN					
1077 NORTHERN		ART UNIT	PAPER NUMBER				
ROSLYN, NY 115	576		3746				
		DATE MAILED: 11/30/2009					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 287 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 287 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/587,689	FREIBERGER, ALFRED				
Notice of Allowability	Examiner	Art Unit				
	PETER J. BERTHEAUD	3746				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.						
1. This communication is responsive to RCE filed 10/27/2009).					
2. The allowed claim(s) is/are <u>9-16</u> .						
 Acknowledgment is made of a claim for foreign priority ur a)	e been received. e been received in Application No cuments have been received in this recommunication to file a reply of this communication. IENT of this application. Itted. Note the attached EXAMINER' es reason(s) why the oath or declarated be submitted.	national stage applica complying with the red 'S AMENDMENT or N tion is deficient.	quirements			
1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendn 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), e nent/Comment	owance			
/Peter J Bertheaud/	/Devon C Kramer/					
Examiner, Art Unit 3746	Supervisory Patent Exa	aminer, Art Unit 374	6			

Application/Control Number: 10/587,689 Page 2

Art Unit: 3746

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Elizabeth C. Richter on 11/18/2009.
- 3. The application has been amended as follows:

Claim 9 has been amended to now read:

- 9. A hermetically encapsulated refrigerant compressor, comprising:
- a hermetically sealed compressor housing;

a piston-cylinder unit disposed in an interior of the housing, said piston-cylinder unit compressing a refrigerant and comprising a suction valve with an intake port arranged in a valve plate of the suction valve;

a suction muffler through which the refrigerant flows to the suction valve of the piston-cylinder unit, said suction muffler being disposed on the cylinder head of the piston-cylinder unit and comprising:

a filling volume;

an inlet cross section through which refrigerant flows into the suction muffler; and a compensating volume in connection with the suction muffler and the interior of the compressor housing and in which the refrigerant oscillates,

Application/Control Number: 10/587,689 Page 3

Art Unit: 3746

wherein the inlet cross section is simultaneously a connecting port between the compensating volume and the filling volume, and the compensating volume is formed by an outer tube which tightly encloses the intake port or and the inlet cross section and encloses a refrigerant suction pipe at least along a section, said outer tube being directed into the compressor housing, wherein the suction pipe extends from the exterior of the compressor housing into the interior of the compressor housing, and wherein the outer tube opens via a compensating opening and communicates with the interior of the compressor housing, and

wherein the compensating volume and filling volume are arranged so that refrigerant from the suction pipe flows into the compensating volume by passing through the filling volume.

Allowable Subject Matter

- 4. Claims 9-16 are allowed.
- 5. The following is an examiner's statement of reasons for allowance: the prior art does not teach or disclose a suction muffler through which the refrigerant flows to the suction valve of a piston-cylinder unit, said suction muffler being disposed on a cylinder head of the piston-cylinder unit and comprising: a filling volume; an inlet cross section through which refrigerant flows into the suction muffler; and a compensating volume in connection with the suction muffler and the interior of the compressor housing and in which the refrigerant oscillates, wherein the inlet cross section is simultaneously a connecting port between the compensating volume and the filling volume, and the

Application/Control Number: 10/587,689

Page 4

Art Unit: 3746

compensating volume is formed by an outer tube which tightly encloses the intake port and the inlet cross section and encloses a refrigerant suction pipe at least along a section, wherein the suction pipe extends from the exterior of the compressor housing into the interior of the compressor housing, and wherein the outer tube opens via a compensating opening and communicates with the interior of the compressor housing.

- 6. It is noted by the examiner, and stated here for the record of prosecution, that the aspect of the instant invention determined to be novel and patentably distinct from the prior art is the suction pipe extending from the exterior of the compressor housing into the interior of the compressor housing, and the outer tube opening via a compensating opening and communicating with the interior of the compressor housing. This limitation, in combination with the inlet cross section being simultaneously a connecting port between the compensating volume and the filling volume and the compensating volume being formed by an outer tube which tightly encloses the intake port and the inlet cross section and encloses a refrigerant suction pipe at least along a section makes the claim read over the prior art.
- 7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

8. The prior art made of record in the attached form 892 and not relied upon is considered pertinent to applicant's disclosure.

Application/Control Number: 10/587,689 Page 5

Art Unit: 3746

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PETER J. BERTHEAUD whose telephone number is

(571)272-3476. The examiner can normally be reached on M-F 9am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Devon Kramer can be reached on (571) 272-7118. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devon C Kramer/

Supervisory Patent Examiner, Art

Unit 3746

PJB

/Peter J Bertheaud/

Examiner, Art Unit 3746